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Aug 21, 1986

DERWENT-ACC-NO: 1986-226174
DERWENT-WEEK: 198635
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TITLE: Hard direct tableting agent which disintegrates well - consists of lactose, polyvinyl-pyrrolidone and cross-linked insoluble polyvinyl-pyrrolidone

INVENTOR: LANG, S

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BASF AG

BADI

PRIORITY-DATA: 1985DE-3505433 (February 16, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3505433 A	August 21, 1986		008	
DE 3671839 G	July 19, 1990		000	
EP 192173 A	August 27, 1986	G	000	
EP 192173 B	June 13, 1990		000	
JP 61189217 A	August 22, 1986		000	
US 5006345 A	April 9, 1991		000	

DESIGNATED-STATES: BE CH DE FR GB IT LI NL BE CH DE FR GB IT LI NL

CITED-DOCUMENTS: 4.Jnl.Ref; A3...8720 ; DE 3012136 ; No-SR.Pub

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 3505433A	February 16, 1985	1985DE-3505433	
EP 192173A	February 12, 1986	1986EP-0101741	
JP61189217A	February 12, 1986	1986JP-0026995	
US 5006345A	December 12, 1988	1988US-0284765	

INT-CL (IPC): A61K 9/20; A61K 31/16; A61K 47/00

ABSTRACTED-PUB-NO: DE 3505433A

BASIC-ABSTRACT:

A direct tableting agent consists essentially of: (A) 88-96 wt.% of a powdery carrier conventional for use in tablets and consisting of lactose or lactose with at the most an equal amt. of another carrier; (B) 2-6 wt.% PVP with K value 20-40 (C) 2-10 wt.% cross-linked, insol. PVP. All pts. wt. are based on that of the direct tableting agent.

USE/ADVANTAGE - The direct tableting agent can be used to prepare tablets which are capable of flowing, have good compression strength at low pressures, disintegrate easily and yet are hard and yet are resistant to abrasion. The new carrier also saves process steps in the prepn. of the tablets and has better binding properties, while

allowing the amt. of carrier to be reduced, compared to previous carriers.
ABSTRACTED-PUB-NO:

EP 192173B

EQUIVALENT-ABSTRACTS:

A direct tableting auxiliary having a particle size distribution of from about 50 to 500 microns (no more than 5% less than 60 microns and no more than 1% above 500 microns and essentially consisting of an intimate mixture of A) from 88 to 96% by weight of a pulverulent carrier conventionally used for the preparation of tablets and consisting of lactose, or lactose together with not more than the same amount of another carrier, B) from 2 to 6% by weight of a binder selected from the group consisting of polyvinylpyrrolidone having a K value of from 20 to 40, hydroxypropylmethylcellulose, hydroxypropylcellulose and gelatine, and C) from 2 to 10% by weight of a tablet disintegrating agent selected from the group consisting of cross-linked, insoluble polyvinylpyrrolidone, crosslinked carboxymethylcellulose, crosslinked carboxymethyl starch and formaldehyde casein, all percentages being based on the direct tableting auxiliary as obtainable by spray drying, spray granulation or wet granulation. (6pp)

US 5006345A

A direct tableting auxiliary consists of a mixt. of; (A) 88-96 wt.% of a pulverulent carrier pharmaceutically acceptable for use in prepn. of tablets, comprising lactose, lactose and mannitol or calcium phosphate; (B) 2-6 wt.% of a binder selected from polyvinyl pyrrolidone with a K value of 20-40, hydroxypropyl methylcellulose, hydroxypropyl cellulose and geletine, and (c) 2-10 wt.% of a tablet disintegrating agent selected from crosslinked insoluble polyvinyl pyrrolidone, crosslinked carboxymethyl cellulose, crosslinked carboxymethyl starch and formaldehyde acasein. The auxiliary has a particle size distribution of 50-500 microns.

ADVANTAGE - Auxiliaries exhibit good flow and good compressibility under low pressure and the tablets produced have good disintegration properties coupled with great hardness and low abrasion. (4pp)

CHOSEN-DRAWING: Dwg.0/0

T ITLE-TERMS: HARD DIRECT TABLET AGENT DISINTEGRATE WELL CONSIST LACTOSE POLYVINYL PYRROLIDONE CROSS LINK INSOLUBLE POLYVINYL PYRROLIDONE

DERWENT-CLASS: A96 B07

CPI-CODES: A04-D05; A12-V01; B04-C03A; B07-A02; B12-M11B;

CHEMICAL-CODES:

Chemical Indexing M1 *02*

Fragmentation Code

F011 F012 F423 H2 H211 H7 H713 H721 J5 J521
L9 L941 M210 M212 M273 M281 M320 M423 M430 M510
M521 M530 M540 M782 M903 M910 R038 V0 V743

Chemical Indexing M2 *01*

Fragmentation Code

F012 F013 F014 F015 F016 F123 H4 H405 H423 H484
H5 H521 H8 J4 J471 K0 L8 L814 L815 L822
L831 M280 M311 M315 M321 M332 M342 M344 M349 M373
M381 M391 M413 M430 M510 M521 M530 M540 M782 M903
M910 Q606 R038

Chemical Indexing M6 *03*

Fragmentation Code

M903 Q606 R038 R112 R303 R308

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0241U; 1849U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0218 0231 0906 2020 2318 2329 2336 2378 2386 2509 2541 2575 2585 2631
2657 2766

Multipunch Codes: 014 04- 040 101 231 316 368 392 393 398 402 408 409 427 473 525 532
537 551 567 569 57- 575 583 589 597 598 645 688 726

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-097480